AMENDMENTS TO THE CLAIMS

1   1.   (Currently amended) A document-generation process <u>performed using a</u>

2 <u>computer system, the process</u> comprising:

3 parsing a raw document to create an internal representation of the document;

4   reading a first-level transform from a transform database;

5   applying the first-level transform to the internal representation so as to create a

6   first-level document;

7   writing the first-level document to ~~cache~~ <u>memory</u>;

8   receiving a first request for a second-level document that depends from the first-

9   level document;

10   in response to the first request, reading a second-level transform from the

11   transform database;

12   applying the second-level transform to the first-level document so as to create a

13   second-level document; and

14   writing the second-level document to ~~cache~~ <u>memory</u>.

1   2.   (Currently amended) A document-generation process as defined in Claim

2 1, further comprising:

3   revising the raw document;

4   applying the first-level transform to the revised raw document so as to create a

5   revised first-level document;

6   writing the revised first-level document to ~~cache~~ <u>memory</u>; and

7   indicating that a then-existing second-level document is invalid.

1   3.   (Original)   A document-generation process as defined in Claim 2,

2 further comprising:

3   receiving a second request for the then-existing second-level document;

4   determining that the then-existing second-level document has been indicated

5   invalid;

6   applying the second-level transform to the revised first-level document so as to

7   create a revised second-level document; and

8   writing the revised second-level document to ~~cache~~ memory.

1   4.   (Currently amended) A document-generation process as defined in Claim

2 1, further comprising:

3   receiving a request for a revised first-level transform;

4   revising the then-existing first-level transform;

5   applying the revised first-level transform to the raw document so as to create a

6   revised first-level document;

7   writing the revised first-level document to ~~cache~~ memory; and

8   indicating that the then-existing second-level document is invalid.

1   5.   (Currently amended) A document-generation process as defined in Claim

2 4, further comprising:

3   receiving a second request for the then-existing second-level document;

4   determining that the then-existing second-level document has been indicated

5   invalid;

6   applying the second-level transform to the revised first-level document so as to

7   create a revised second-level document; and

8   writing the revised second-level document to ~~cache~~ memory.

1   6.   (Original)   A document-generation process as defined in Claim 1,

2 wherein a respective GID is assigned to each of the first-level document and the second-

3 level document.

1   7.   (Original)   A document-generation process as defined in Claim 1,

2 wherein the first-level document and the second-level document are timestamped and

3 wherein a document is deleted when a timestamp indicates that the document is stale.

1   8.   (Currently amended) A method of generating customized versions of a

2 document <u>using a computer system,</u> the method comprising:

3   storing the document in raw form;

4   parsing the document to create an internal representation of the document; and

5   decomposing the document, wherein decomposing the document comprises

6   applying a first-level transform to the internal representation of the

7   document so as to create a first-level document and applying a second-

8   level transform to the first-level document so as to create a second-level

9   document.

1   9.   (Currently amended) A method as defined in Claim 8, wherein

2 decomposition of the document applying a first-level transform and applying a second-

3 level transform comprises applying sequential transforms to the document.

1   10.   (Canceled).

1   11.   (Canceled.)

1   12.   (Currently amended) A method as defined in Claim [[10]] 8, wherein

2 decomposition of decomposing the document comprises applying a third-level transform

3 to the second level document so as to create a third-level document.

1   13.   (Original)   A method as defined in Claim 8, wherein the document is

2 stored in raw XML form.

1   14.   (Currently amended) A method as defined in Claim 13, wherein

2 decomposition of the document applying a first-level transform and applying a second-

3 level transform comprises applying sequential transforms to the document.

1   15.   (Currently amended) A method as defined in Claim 14, wherein

2 decomposition of applying a first-level transform of the document stored in raw XML

3 form comprises applying a subscription-level transform to the internal representation of

4 the document so as to create a subscription-level document.

1   16.   (Currently amended)   A method as defined in Claim [[1]] 15, wherein the
2   subscription-level transform enables content filtering of the internal representation in
3   accordance with a user's request.

1   17.   (Currently amended)   A method as defined in Claim 16, wherein
2   ~~decomposition of the document~~ applying a second-level transform comprises applying an
3   organization-level transform to the subscription-level document so as to create an
4   organization-level document.

1   18.   (Original)   A method as defined in Claim 17, wherein the
2   organization-level transform enables subscription-specific content filtering of a
3   subscription-level document.

1   19.   (Currently amended)   A method as defined in Claim 18, wherein
2   ~~decomposition of~~ decomposing the document comprises applying a presentation-level
3   transform to the organization-level document so as to create a presentation-level
4   document.

1   20.   (Original)   A method as defined in Claim 19, wherein the presentation-
2   level transform generates an organization-specific document for end user presentation.

1   21.   (Original)   A method as defined in Claim 20, wherein the presentation-
2   level transform generates an HTML document or a text file for end user presentation.

3   22.   (Original)   A method as defined in Claim 21, wherein the subscription-
4   level transform is mandatory and the organization-level and presentation-level transforms
5   are optional.

1   23.   (Original)   A method as defined in Claim 8, wherein a transform is
2   applied to a document only as a result of an initial demand for a transformed document.

1   24.   (Original)   A method as defined in Claim 23, wherein the demand for a
2   transformed document is a client request.

1   25.   (Original)   A method as defined in Claim 24, wherein the demand for a
2   transformed document is a document publication process.

1   26.   (Original)   A method as defined in Claim 23, wherein transformed
2   documents are written to a cache.

1   27.   (Original)   A method as defined in Claim 26, wherein demands for a
2   transformed document, subsequent to the initial demand, are referred to the cache.

1   28.   (Currently amended) A <u>computer readable medium having data stored</u>
2   <u>therein to cause a data processing system to generate a</u> data document <s>generated</s>
3   according to a process comprising:
4   storing a raw form of the document;
5   parsing the document to create an internal representation of the document; and
6   decomposing the document into a form requested by a recipient of the document<u>,</u>
7   <u>wherein decomposing the document comprises applying a first-level</u>
8   <u>transform to the internal representation of the document so as to create a</u>
9   <u>first-level document and applying a second-level transform to the first-</u>
10   <u>level document so as to create a second-level document.</u>

1   29.   (Currently amended) A <s>data document</s> <u>computer readable medium</u> as
2   defined in Claim 28, wherein <s>decomposing the document comprises applying a first-level</s>
3   <s>transform to the internal representation of the document so as to create a first-level</s>
4   <s>document and applying a second-level transform to the first-level document.</s> <u>applying a</u>
5   <u>first-level transform and applying a second-level transform comprises applying sequential</u>
6   <u>transforms to the document.</u>

1   30.   (Currently amended)   A ~~data document~~ computer readable medium as

2   defined in Claim 28, wherein the document is stored in XML form.

1   31.   (Currently amended)   A ~~data document~~ computer readable medium as

2   defined in Claim 30, wherein the document stored in XML form is parsed by an XML

3   parser to create the internal representation.

1   32.   (Currently amended)   A ~~data document~~ computer readable medium as

2   defined in Claim 31, wherein the internal representation level of the document is

3   transformed to a subscription-level document by applying a subscription-level transform

4   to the internal representation.

1   33.   (Currently amended)   A ~~data document~~ computer readable medium as

2   defined in Claim 32, wherein application of the subscription level transform to the

3   internal representation so as to create a subscription-level document is required.

1   34.   (Currently amended)   A ~~data document~~ computer readable medium as

2   defined in Claim 32, wherein the subscription-level document is transformed into an

3   organization-level document by applying an organization-level transform to the

4   subscription-level document.

1   35.   (Currently amended)   A ~~data document~~ computer readable medium as

2   defined in Claim 34, wherein application of the organization-level transform to the

3   subscription-level document so as to create an organization-level document is optional.

1   36.   (Currently amended)   A ~~data document~~ computer readable medium as

2   defined in Claim 34, wherein the internal representation of the document is decomposed

3   to a transform-level document only in response to a request for a transform-level

4   document.

1   37.   (Currently amended) A ~~data document~~ <u>computer readable medium</u> as
2   defined in Claim 36, wherein transformed documents are written to a cache.

1   38.   (Currently amended) A ~~data document~~ <u>computer readable medium</u> as
2   defined in Claim 37, wherein an initial request for a transformed document causes
3   decomposition of the internal representation into the form requested and wherein
4   subsequent requests for a transformed document causes the transformed document to be
5   retrieved from ~~cache~~ <u>memory</u>.

1   39.   (Currently amended) A ~~data document~~ <u>computer readable medium</u> as
2   defined in Claim 29, wherein the data document is generated according to a process
3   comprising:
4   tracking the dependencies of a transformed document; and
5   regenerating the transformed document when any dependency related to the
6   document changes.

1   40.   (Currently amended) A ~~data document~~ <u>computer readable medium</u> as
2   defined in Claim 39, wherein the document is generated according to a process
3   comprising:
4   designating a cached version of the document invalid when any dependency
5   related to the document changes, and
6   regenerating the transformed document in response to a request form the
7   document that is made after the dependency change.

1   41.   (Currently amended) A ~~data document~~ <u>computer readable medium</u> as
2   defined in Claim 40, wherein the document is stored in XML form.

1   42.   (Currently amended) A ~~data document~~ <u>computer readable medium</u> as
2   defined in Claim 39, wherein the document stored in XML form is parsed by an XML
3   parser to create the internal representation.

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1   43.   (Currently amended)   A ~~data document~~ <u>computer readable medium</u> as

2   defined in Claim 42, wherein the internal representation level of the document is

3   transformed to a subscription-level document by applying a subscription-level transfom1

4   to the internal representation.

1   44.   (Currently amended)   A ~~data document~~ <u>computer readable medium</u> as

2   defined in Claim 43, wherein application of the subscription level transformed to the

3   internal representation so as to create a subscription-level document is required.

1   45.   (Currently amended)   A ~~data document~~ <u>computer readable medium</u> as

2   defined in Claim 43, wherein the subscription-level document is transformed into an

3   organization-level document by applying an organization-level transform to the

4   subscription-level document.

1   46.   (Currently amended)   A ~~data document~~ <u>computer readable medium</u> as

2   defined in Claim 45, wherein application of the organization-level transform to the

3   subscription-level document so as to create an organization-level document is optional.

1   47.   (Currently amended)   A ~~data document~~ <u>computer readable medium</u> as

2   defined in Claim 45, wherein the internal representation of the document is decomposed

3   to a transform-level document only in response to a request for a transform-level

4   document.

1   48.   (Currently amended)   A ~~data document~~ <u>computer readable medium</u> as

2   defined in Claim 47, wherein transformed documents are written to a cache.

1   49.   (Withdrawn)   A system for generating customized documents, the system

2   comprising:

3   a primary database that includes a document table and a transform table;

4   a raw-data database accessible by the primary database;

5   a transform database accessible by the primary database; and

6   a cache coupled to the primary database and storing customized versions of

7   documents.

1   50.   (Withdrawn) A system for generating customized documents as defined

2 in Claim 49, wherein the raw-data database stores data documents in XML form.

1   51.   (Withdrawn) A system for generating customized documents as defined

2 in Claim 49, wherein the transform database stores XSL stylesheets.

1   52.   (Withdrawn) A system for generating documents as defined in Claim 49,

2 wherein the transform database stores Java classes.

1   53.   (Currently amended) A method of generating customized versions of a

2 document using a computer system, the method comprising:

3   storing the document in a primitive form;

4   transforming the document from primitive form into an internal representation of

5   the document;

6   transforming the internal representation into at least one subscription-level

7   document, into a DEFAULT organization-level document and into at least

8   one user-specific organization-level document;

9   transforming the DEFAULT organization-level document into at least one

10   presentation-level document; and

11   transforming the user-specific organization-level document into at least one

12   presentation-level document.

1   54.   (Original)   A method of generating customized versions of documents

2 as defined in Claim 53, wherein the user-specific organization-level document is

3 transformed into at least two presentation-level documents.

1   55.   (Original)   A method of generating customized versions of documents

2 as defined in Claim 54, wherein the user-specific organization-level document is

3   transformed into an HTML presentation-level document and into a FLAT presentation-

4   level transform.

1   56.   (Original)   A method of generating customized versions of a document

2   as defined in Claim 53, wherein:

3   (i) the internal representation is transformed into a first subscription-level

4   document and into a second subscription-level document;

5   (ii) the first subscription level document is transformed into a subscription-level

6   specific DEFAULT organization-level document and into at least one

7   user-specific organization-level document; and

8   (iii) the second organization-level document is transformed into a subscription-

9   level-specific DEFAULT organization-level document.

1   57.   (Original)   A method of generating customized versions of a document

2   as defined in Claim 56, wherein the document is stored in XML form.

1   58.   (Original)   A system for the generation of customized data documents,

2   the system comprising:

3   first database means for storing raw data documents;

4   first tabular means for storing document records;

5   an interface coupling the first database means to the first tabular means;

6   second database means for storing a compilation of transforms that enable an

7   internal representation of a document to be transformed into a first-level

8   document and that enable the first-level document to be transformed into a

9   second-level document;

10   second tabular means for storing transform records; and

11   an interface coupling the second database means to the second tabular means.

1   59.   (Original)   A system as defined in Claim 58, further comprising:

2   a cache coupled to the first tabular means and to the second tabular means.

1   60.   (Original)   A system as defined in Claim 58, wherein the second

2 database means stores a compilation of transforms that enable:

3   transforming an internal representation into at lest one subscription-level

4   document, into a DEFAULT organization-level document and into at least

5   one user-specific organization-level document;

6   transforming the DEFAULT organization-level document into at least one

7   presentation-level document; and

8   transforming the user-specific organization-level document into at least one

9   presentation-level document.

1   61.   (Original)   A system as defined in Claim 60, wherein the second

2 database means stores a compilation of transforms that enable:

3   (i) the internal representation to be transformed into a first subscription-level

4   document and into a second subscription-level document;

5   (ii) the first subscription level document to be transformed into a subscription-

6   level specific DEFAULT organization-level document and into at least

7   one user-specific organization-level document; and

8   (iii) the second organization-level document to be transformed into a subscription-

9   level-specific DEFAULT organization-level document.

1   62.   (Original)   A system as defined in Claim 61, further comprising:

2 a cache coupled to the first tabular means and to the second tabular means.